

Amendments to the Claims:

This listing of claims replaces all prior versions and listings of claims in the application.

Listing of Claims:

1-30. (Canceled).

31. (Currently amended) ~~A torsional electrostatic combdrive, comprising:
a stationary combteeth assembly having first combteeth; and
a moving combteeth assembly, including a mirror and one or more elongated
combteeth spines coupled to sides of the mirror,~~The torsional electrostatic combdrive of
claim 32, wherein:

each combteeth spine ~~having~~includes a major axis extending directly away from a
central portion of a respective side of the mirror, ~~the one or more combteeth spines each
having second combteeth extending therefrom for engaging the first combteeth.~~

32. (Currently amended) A torsional electrostatic combdrive, comprising:
a stationary combteeth assembly having first combteeth; and
a ~~moving~~movable combteeth assembly, including a mirror and one or more elongated
combteeth spines coupled to and extending away from sides of the mirror, the one or more
combteeth spines each having second combteeth extending therefrom for engaging the first
combteeth;

wherein the ~~moving~~movable combteeth assembly is positioned entirely above the
stationary combteeth assembly by a predetermined vertical displacement during a combdrive
resting state.

33. (Previously Presented) The torsional electrostatic combdrive of claim 32 wherein
the predetermined vertical displacement is between 0.2 and 3.0 microns.

34. (Currently amended) The torsional electrostatic combdrive of claim ~~31~~32 wherein the mirror is formed of single-crystal silicon.

35. (Currently amended) The torsional electrostatic combdrive of claim 34 wherein the second combteeth are positioned between the first combteeth of the stationary combteeth assembly during a combdrive activation state, and the mirror intersects ~~the~~a plane defined by the first combteeth during the combdrive activation state.

36. (Previously Presented) The torsional electrostatic combdrive of claim 35 wherein the mirror pivots about a torsional hinge during the combdrive activation state.

37. (Currently amended) The torsional electrostatic combdrive of claim ~~31~~32 wherein the ~~moving~~movable combteeth assembly further includes an anchor, a torsional hinge being positioned between the mirror and the anchor.

38. (Currently amended) The torsional electrostatic combdrive of claim ~~31~~32 wherein the ~~moving~~movable combteeth assembly has a thickness of between 10 and 500 microns.

39. (Currently amended) The torsional electrostatic combdrive of claim 38 wherein the ~~moving~~movable combteeth assembly has a thickness of between 50 and 100 microns.

40. (Currently amended) The torsional electrostatic combdrive of claim ~~31~~32 wherein the mirror has a lateral length of less than 10 millimeters.

41. (Currently amended) The torsional electrostatic combdrive of claim ~~31~~32 wherein the mirror has a lateral length of between 550 and 2000 microns.

42. (Canceled)

43. (Currently amended) The torsional electrostatic combdrive of claim ~~31~~32 wherein the position of the ~~moving~~movable combteeth assembly is adjusted in response to a capacitance value measured between the ~~moving~~movable combteeth assembly and the stationary combteeth assembly.

44. (Currently amended) The torsional electrostatic combdrive of claim ~~31~~32 further comprising transparent substrates enclosing the stationary combteeth assembly and the ~~moving~~movable combteeth assembly.

45. (Canceled)

46. (Currently amended) The torsional electrostatic combdrive of claim ~~31~~32 wherein the mirror includes a multilayer optical filter.

47. (Currently amended) The torsional electrostatic combdrive of claim ~~31~~32, wherein the one or more combteeth spines define a plane that is perpendicular to and intersecting the surface of the mirror.

48. (Previously Presented) The torsional electrostatic combdrive of claim 47, wherein the second combteeth are positioned on a first side of the plane.

49. (Currently amended) The torsional electrostatic combdrive of claim 48, the ~~moving~~movable combteeth assembly further comprising:

a torsional hinge about which the mirror pivots during a combdrive activation state; and
one or more anchors coupled to the torsional hinge, wherein the one or more anchors are positioned on a second side of the plane.

50. (Currently Amended) The torsional electrostatic combdrive of claim ~~31~~32, wherein ~~the combteeth spines are elongated structures and~~ the second combteeth extend perpendicularly away from the combteeth spines.

51. (Currently Amended) The torsional electrostatic combdrive of claim ~~31~~32, wherein the torsional electrostatic combdrive is configured to maintain the mirror at a static position.

52. (Currently Amended) ~~A torsional electrostatic combdrive, comprising:
a stationary combteeth assembly having first combteeth; and
a moving combteeth assembly including a mirror and a pair of combteeth spines coupled to sides of the mirror.~~ The torsional electrostatic combdrive of claim 56, wherein: each combteeth spine ~~having~~includes a major axis extending in opposite directions directly away from a central portion of a respective sides of the mirror; ~~the combteeth spines each having second combteeth extending therefrom for engaging the first combteeth.~~

53. (Currently Amended) The torsional electrostatic combdrive of claim ~~52~~56, wherein the combteeth spines are elongated structures and the second combteeth extend perpendicularly away from the combteeth spines.

54. (Currently Amended) The torsional electrostatic combdrive of claim ~~52~~56, wherein the first combteeth extending from a first combteeth spine of the pair of combteeth spines and the second combteeth extending from a second combteeth spine of the pair of combteeth spines extend from the combteeth spines in a same direction.

55. (Currently Amended) The torsional electrostatic combdrive of claim ~~52~~56, wherein the torsional electrostatic combdrive is configured to maintain the mirror at a static position.

56. (Currently amended) A torsional electrostatic combdrive, comprising:
a stationary combteeth assembly having first combteeth; and
a ~~moving~~movable combteeth assembly, including a mirror and a pair of combteeth spines coupled to and extending in opposite directions away from sides of the mirror, the combteeth spines each having second combteeth extending therefrom for engaging the first combteeth;
wherein the ~~moving~~movable combteeth assembly is positioned entirely above the

stationary combteeth assembly by a predetermined vertical displacement during a combdrive resting state.

57. (Previously Presented) The torsional electrostatic combdrive of claim 56 wherein the predetermined vertical displacement is between 0.2 and 3.0 microns.

58. (Currently amended) The torsional electrostatic combdrive of claim ~~52~~56 wherein the mirror is formed of single-crystal silicon.

59. (Currently amended) The torsional electrostatic combdrive of claim ~~52~~56 wherein the first second combteeth are positioned between the first combteeth of the stationary combteeth assembly during a combdrive activation state, and the mirror intersects ~~the~~a plane defined by the first combteeth during the combdrive activation state.

60. (Currently amended) The torsional electrostatic combdrive of claim ~~52~~56 wherein the mirror pivots about a torsional hinge during the combdrive activation state.

61. (Currently amended) The torsional electrostatic combdrive of claim ~~52~~56 wherein the ~~moving~~movable combteeth assembly further includes an anchor, a torsional hinge being positioned between the mirror and the anchor.

62. (Currently amended) The torsional electrostatic combdrive of claim ~~52~~56 wherein the ~~moving~~movable combteeth assembly has a thickness of between 10 and 500 microns.

63. (Currently amended) The torsional electrostatic combdrive of claim 62 wherein the ~~moving~~movable combteeth assembly has a thickness of between 50 and 100 microns.

64. (Currently amended) The torsional electrostatic combdrive of claim ~~52~~56 wherein the mirror has a lateral length of less than 10 millimeters.

65. (Currently amended) The torsional electrostatic combdrive of claim ~~52~~56 wherein the mirror has a lateral length of between 550 and 2000 microns.

66. (Canceled)

67. (Currently amended) The torsional electrostatic combdrive of claim 5256 wherein the position of the ~~moving~~movable combteeth assembly is adjusted in response to a capacitance value measured between the ~~moving~~movable combteeth assembly and the stationary combteeth assembly.

68. (Currently amended) The torsional electrostatic combdrive of claim 5256 further comprising transparent substrates enclosing the stationary combteeth assembly and the ~~moving~~movable combteeth assembly.

69. (Currently amended) The torsional electrostatic combdrive of claim 5256 wherein the mirror includes a multilayer optical filter.

70. (Currently amended) The torsional electrostatic combdrive of claim 5256, wherein the one or more combteeth spines define a plane that is perpendicular to and intersecting the surface of the mirror.

71. (Previously Presented) The torsional electrostatic combdrive of claim 70, wherein the second combteeth are positioned on a first side of the plane.

72. (Currently amended) The torsional electrostatic combdrive of claim 71, the ~~moving~~movable combteeth assembly further comprising:

a torsional hinge about which the mirror pivots during a combdrive activation state; and
one or more anchors coupled to the torsional hinge, wherein the one or more anchors are positioned on a second side of the plane.

73. (Canceled)

74. (Canceled)